

Appln. Serial No. 09/803,441
Amendment Dated August 15, 2005
Reply to Office Action Mailed June 16, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Previously Presented) A method for matching a color with a corresponding color
2 in a defined color space, comprising:
3 scanning an object having the color to be matched to produce a color image data
4 signal representative of said object;
5 mapping said color image data signal to the defined color space to ascertain the
6 corresponding color;
7 determining an identity of the corresponding color; and
8 sending the identity of the corresponding color over a network to a website.
- 1 2. (Cancelled)
- 1 3. (Previously Presented) The method of claim 1, wherein the identity of the
2 corresponding color comprises a reference number, and wherein sending the identity of the
3 corresponding color comprises sending the reference number associated with said corresponding
4 color.
- 1 4. (Original) The method of claim 3, further comprising, using said reference
2 number to match a color with the color to be matched.
- 1 5. (Original) The method of claim 3, further comprising, displaying said reference
2 number.
- 1 6. (Original) The method of claim 1, further comprising, selecting a color region on
2 said object, the color region containing said color to be matched.
- 1 7. (Original) The method of claim 1, further comprising, selecting a color region of
2 said color image data signal, the color region containing said color to be matched.

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1 8. (Original) The method of claim 1, wherein said object comprises a plurality of
2 colors, and further comprising selecting one of said plurality of colors as said color to be
3 matched.

1 9. (Original) The method of claim 1, wherein said object has a texture, and further
2 comprising processing said color image data signal to remove the influence of said texture from
3 the color image data signal.

1 10. (Original) The method of claim 1, wherein said defined color space comprises the
2 Pantone Matching System.

1 11. (Original) The method of claim 1, wherein mapping said color image data signal
2 to the defined color space to ascertain the corresponding color comprises using a color look-up
3 table.

1 12. (Original) The method of claim 11, wherein said color image data signal
2 comprises a plurality of pixels, each having a red tristimulus value, a green tristimulus value, and
3 a blue tristimulus value associated therewith, and wherein mapping said color image data signal
4 to the defined color space to ascertain the corresponding color further comprises:
5 computing an average red tristimulus value, an average green tristimulus value,
6 and an average blue tristimulus value from the red, green and blue tristimulus values of
7 one or more of said plurality of pixels; and
8 inputting the average red, green, and blue tristimulus values into said color
9 look-up table to obtain the corresponding color.

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1 13. (Original) The method of claim 11, wherein said color image data signal
2 comprises a plurality of pixels, each having a red tristimulus value, a green tristimulus value, and
3 a blue tristimulus value associated therewith, and wherein mapping said color image data signal
4 to the defined color space to ascertain the corresponding color further comprises:

5 inputting the red, green and blue tristimulus values of one or more of said
6 plurality of pixels into said color look-up table to obtain one or more reference numbers;
7 and

8 computing an average reference number from said one or more reference
9 numbers, the average reference number identifying said corresponding color.

1 14. (Previously Presented) A system for matching a color with a corresponding color
2 in a defined color space, comprising:

3 scanning apparatus, said scanning apparatus to scan an object having the color to
4 be matched, said scanner apparatus to produce a color image data signal representative of
5 said object; and

6 a computer operatively associated with said scanner apparatus, said computer to:
7 in response to user selection, select a color region of the color image data
8 signal representative of said object;

9 determine a dominant color from a plurality of colors in the selected color
10 region;

11 map a portion of said color image data signal corresponding to the
12 dominant color to the defined color space to ascertain an identity of the corresponding
13 color; and

14 present the identity of the corresponding color to a user.

1 15. - 17. (Cancelled)

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1 18. (Original) The system of claim 14, wherein said object has a texture, and further
2 comprising,
3 at least one computer readable storage device operatively associated with said
4 computer; and
5 computer readable program code for removing the influence of the texture from
6 said color image data signal, the computer readable program code being stored on said at
7 least one computer readable storage device.

1 19. (Previously Presented) The system of claim 14, further comprising:
2 at least one computer readable storage device operatively associated with said
3 computer; and
4 a color look-up table stored on the at least one computer readable storage device,
5 said computer using the color look-up table, when mapping said portion of the color
6 image data signal to the defined color space to ascertain the identity of the corresponding
7 color.

1 20. (Original) The system of claim 14, wherein said defined color space comprises
2 the Pantone Matching System.

1 21. (Previously Presented) The method of claim 1, wherein sending the identity of
2 the corresponding color to the website comprises sending the identity of the corresponding color
3 to a shopping website for purchasing a product having the corresponding color.

1 22. (Previously Presented) The method of claim 7, further comprising randomly
2 selecting pixels in the selected color region, wherein mapping said color image data signal to the
3 defined color space comprises mapping a portion of the color image data signal corresponding to
4 the randomly selected pixels to the defined color space.

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1 23. (Previously Presented) The method of claim 7, further comprising determining a
2 dominant color in the selected color region using histograms representing respective colors,
3 wherein mapping said color image data signal to the defined color space
4 comprises mapping a portion of the color image data signal corresponding to the
5 determined dominant color to the defined color space.

1 24. (Previously Presented) The system of claim 14, wherein the computer determines
2 the dominant color in the selected color region using histograms representing the plurality of
3 colors.

1 25. (Cancelled)

1 26. (Currently Amended) ~~The article of claim 25,~~ An article comprising a storage
2 device containing program code that when executed cause a system to:
3 receive color image data representing an object scanned by a scanner, wherein the
4 object has a texture;
5 process the color image data to remove influence of the texture, the processing
6 producing a de-texturized color image data; and
7 map the de-texturized color image data to determine a corresponding color in a
8 defined color space,
9 wherein the program code when executed cause the system to send an identity of
10 the corresponding color over a network to a website.

1 27. (Previously Presented) The article of claim 26, wherein sending the identity of
2 the corresponding color to the website comprises sending the identity of the corresponding color
3 to a shopping website for purchasing a product having the corresponding color.

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- 1 28. (Previously Presented) A system comprising:
2 a storage device to store information representing a defined color space; and
3 a processor to:
4 receive color image data representing an object scanned by a scanner;
5 map the color image data to a corresponding color in the defined color
6 space;
7 determine an identity of the corresponding color; and
8 communicate the identity of the corresponding color to a website.
- 1 29. (Previously Presented) The system of claim 28, wherein the processor is adapted
2 to send the identity of the corresponding color to a shopping website in response to user selection
3 to enable a purchase of a product containing the corresponding color.
- 1 30. (Previously Presented) The system of claim 28, wherein the processor is adapted
2 to, in response to user selection, select a color region of the color image data, and wherein the
3 processor is adapted to map a portion of the color image data corresponding to the selected color
4 region to the defined color space.
- 1 31. (Previously Presented) The system of claim 30, wherein the processor is adapted
2 to randomly select pixels in the selected color region, and wherein the processor is adapted to
3 map a portion of the color image data corresponding to the randomly selected pixels to the
4 defined color space.
- 1 32. (Previously Presented) The system of claim 30, wherein the processor is adapted
2 to determine a dominant color in the selected color region using histograms representing
3 respective colors, and wherein the processor is adapted to map a portion of the color image data
4 corresponding to the determined dominant color to the defined color space.